

Boulder's Climate Commitment:

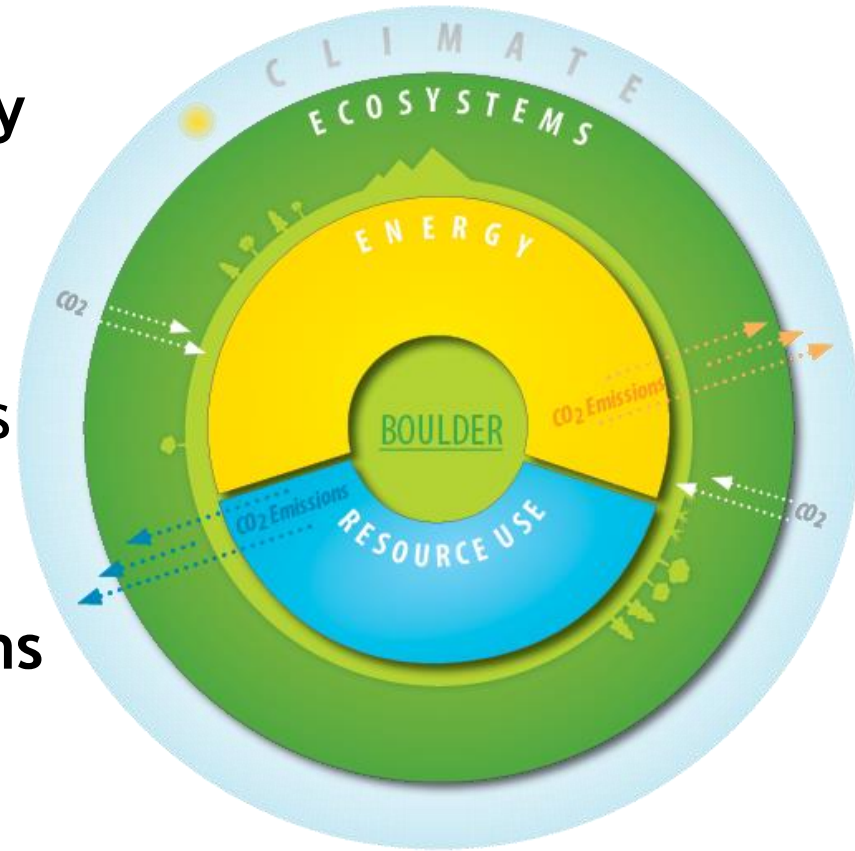
*Rise to the climate challenge and
power a vibrant future*



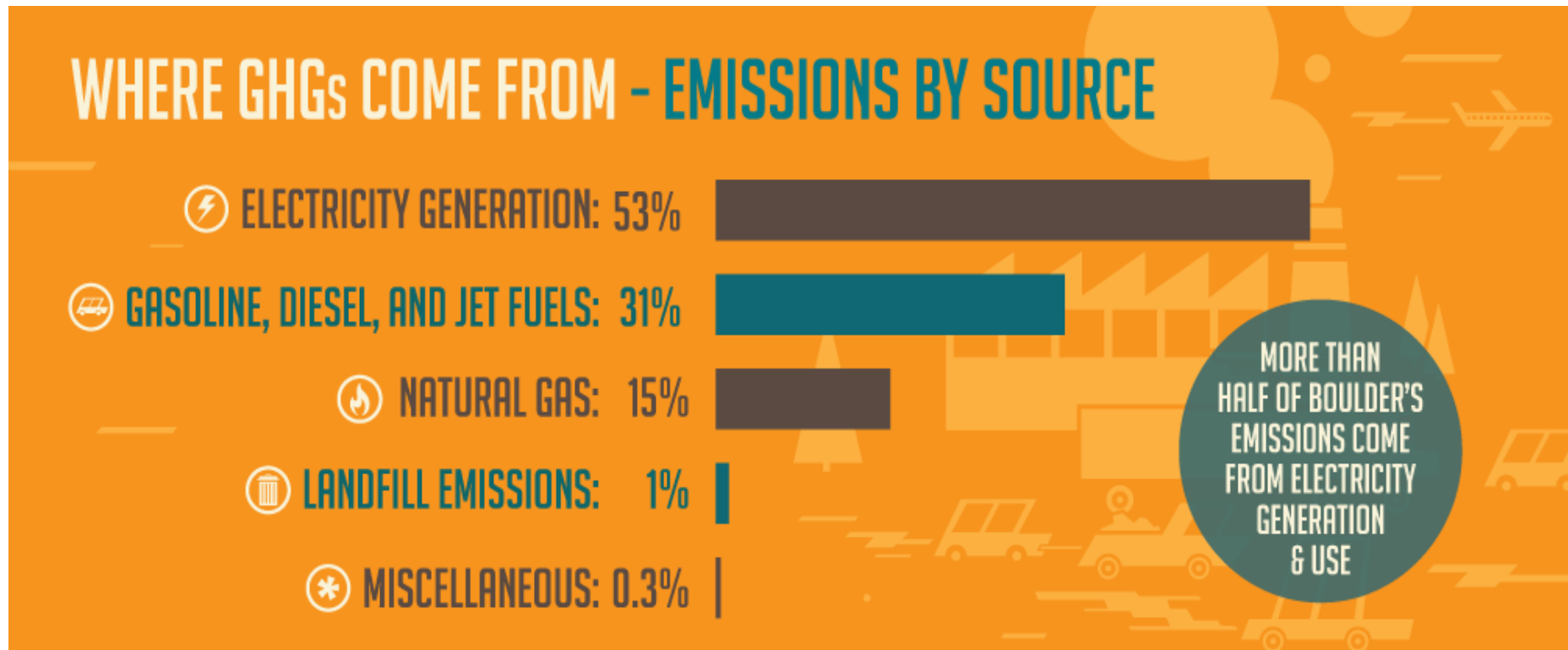
Goal: To reduce Boulder's GHG emissions *at least* 80% by 2050

How to reach our goal

- Transition to a **renewable energy economy** and lifestyle
- **Use resources more efficiently** and to reduce secondary emissions impacts
- **Restore and enhance ecosystems** to support climate stabilization functions.



Boulder 2012 Energy-Related Emissions—Where it Comes From



99% of Boulder's GHGs are From Fossil Fuel Energy Use

Climate Action At a Glance—Existing Programs

High Performance Buildings

1. **Building Codes**
 - Residential
 - Commercial
2. **Building Ordinances**
 - SmartRegs
 - C&I Ordinance
3. **Voluntary Programs**
 - Energy Smart
 - PACE

➤ **CAP Tax**



Mobility

4. **Mobility Strategies**
 - Transport Master Plan



TRANSPORTATION
MASTER PLAN



Energy Source

5. **Municipalization**

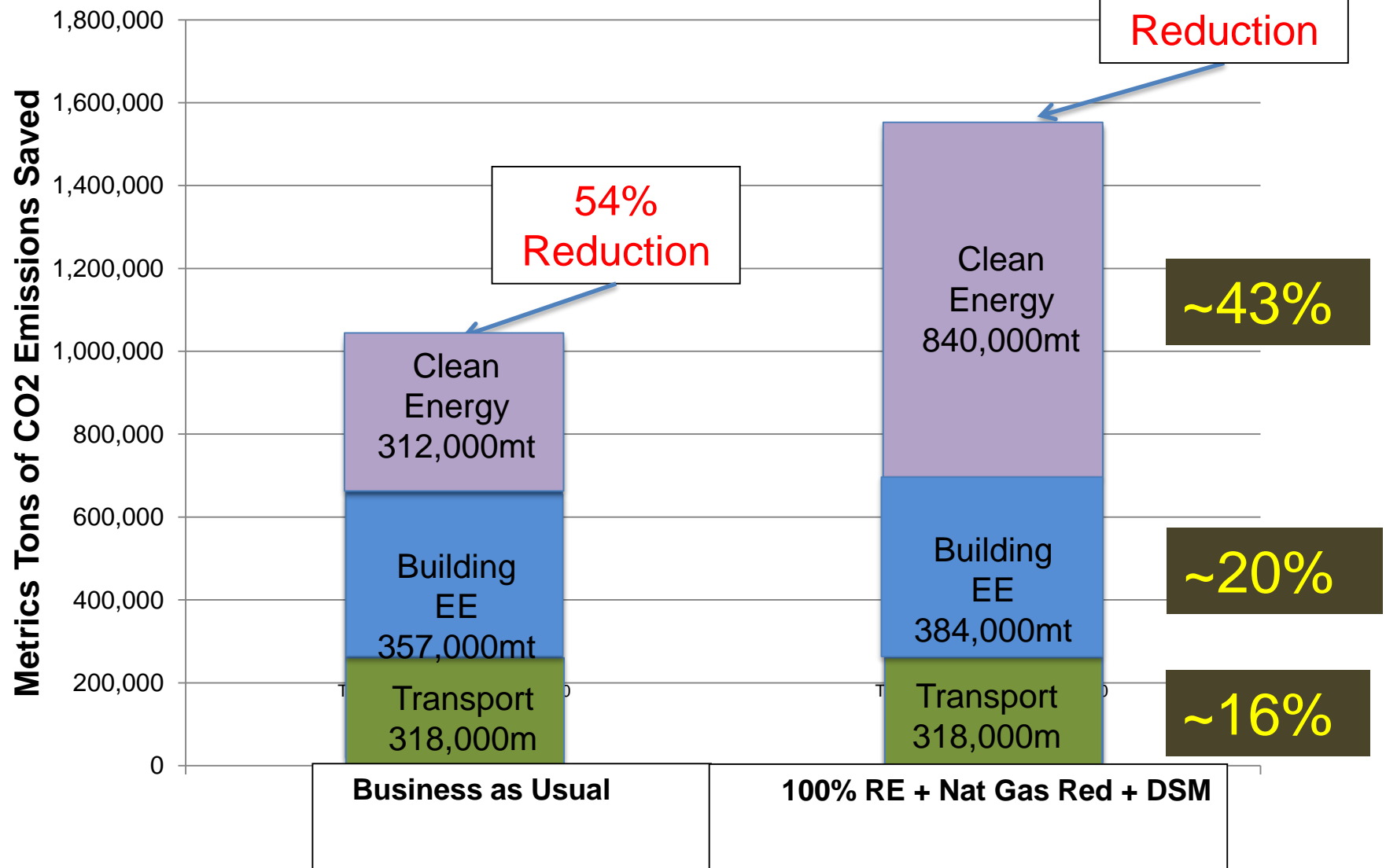
CLEAN LOCAL ENERGY

low-cost. reliable. possible.

Boulder's Energy Future and the Municipalization Exploration Project



Two Potential Pathways: Existing Utility & 100% Clean Energy Utility



Climate Action: Pilots & Initiatives

High Performance Buildings

1. Solar Grants
2. Community Power Partnership
3. EV/PV/EE Pilot -SNUGG Home (BEC)
4. Boulder Housing Partners Pilot (BEC)
5. Thermal Decarbonization Strategy
6. Superior Ecotech (BEC)

Mobility

7. Lightning Hybrids (BEC)
8. eGo Carshare Pilot (BEC)
9. Workplace Charging Challenge
10. Employee EV Commute Pilot

Energy Source

11. Solar Capacity Analysis
12. Solar + Storage Pilot (BEC)
13. Nanogrid Pilots
14. Local Carbon Offset Fund
15. Energy Transformation Roadmap



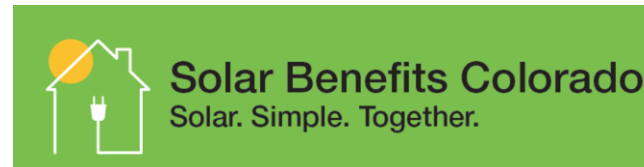
Boulder Energy Initiatives--Solar

Existing Adoption—Over 15 MWe of installed rooftop solar



Just released a community solar tool providing capacity for every building in Boulder

Just completed a group purchase program that resulted in over 200 new solar contracts and 104 EV's sold!



Short-Term Target Development

Targets 2020-2050

Prioritize actions to transition to a renewable energy-based economy and lifestyle. Continue to explore innovations in responsible resource use and effective stewardship of local ecosystems.

TARGET AREA		2020	2050
ENERGY	Buildings	6%	20%
	Mobility	3%	16%
	Energy Source	10%	43%
RESOURCES	Waste	1%	2%
	Water	Methodologies for evaluating emission reduction impacts and targets under development	
	Food		
ECOSYSTEMS	Urban	Methodologies for evaluating emission reduction impacts and targets under development	
	Wildland		
	Agricultural		
TOTAL		20%	81%



CITIES FOR CLIMATE

LE BHV A RAIS





Nations Unies Conférence sur les Changements Climatiques

COP21/CMP11

Paris - Le Bourget



ESPACES
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CLIMAT



TOUS ENSEMBLE
POUR LE CLIMAT

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AREA



Cities & Regions Pavilion - TAP2015

MAIRIE DE PARIS
BRISTOL
2015
GREEN CAPITAL

Cities & Regions Pavilion - TAP2015

Cities & Regions Pavilion - TAP2015





Safe Haven Resilience

Boulder, Colorado, USA

- Population: 102,420
- Main Economic Sector: Aerospace, natural science and higher education
- Unemployment: 3.5%
- Geography Type: Mountains, foothills, plains
- Main Climate Hazards: Flooding, drought and wildfires
- Share of renewables in energy supply: 20%



Goals of Project

1. Ensure continuity of critical community services
2. Protect high-risk and vulnerable populations
3. Enhance capacity to provide basic services at a neighborhood- scale

TAP your potential at COP21!



How does the project intend to **transform** society within the local context?

- **Radical rethinking of infrastructure independency and cascading failure**
- **Imagines infrastructure as interlinked life safety systems**
- **Disrupts model of large, centralized service provision**



How will the project contribute to climate adaptation or mitigation goals?

- Boulder's climate risks swift , catastrophic and inherently unpredictable
- Safe havens lay foundation for full community transition to renewable DG
- Critical facilities will transition first, more community support for higher startup costs

Investing for the long term: Addressing carbon asset risk



PARIS2015
UN CLIMATE CHANGE CONFERENCE
COP21-CMP11

Carbon Tracker



Ceres

IIGCC



Climate Markets &
Investment Association



Chair, Climate Reality Project

CEO, Carbon Tracker

an Iyst, IEA

BC

CMIA

Climate Energy.

International

December 2015
pm - 4.30 pm CET
Climate Action Arena,
Blue Zone, Le Bourget, Paris
#COP21carbonrisk



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UN CLIMATE CHANGE CONFERENCE
COP21-CMP11





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